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June 1, 2003, 17:59:15 ; Search time 497 Seconds
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Copyright (c) 1993 - 2003 Compugen Ltd.
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SUMMARIES

	Description	Human monocyte che	Human low adenosin	Human low adenosin	Human adenosine re	Human adenosine re	Ovary cancer relat	Human adenosine re	Human low adenosin	Human monocyte che
	ID	6 AAQ96297	1 AAF21105	1 AAF21272	1 AAA34983	1 AAA35150	4 ABL68124	1 AAA35151	21 AAF21273	6 AAQ96298
dР	Query Match Length DB ID	100.0 2232 16	51.6 143068 23	51.6 143068 2	51.6 143068 2	51.6 143068 2	51.6 143068 2	51.6 149412 2		43.9 1979 1
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wild-type		Mon-endodenous him	MOII GIRGO CHOCK	HIV-1 co-receptor	cDNA for inactive	Human G-protein ch	Human G-protein ch	DNA encoding human	Human CC-CKR5 cod1	Mon-endogenous hum	Human chemokine (C	HIV-1 co-receptor	DNA encoding human	c,	Human CCR5 Gln 55	a	HIV-1 co-receptor	7		G-protei	o protoi	G-protein	G-protern	G-prote	in HDGNKI	Sucod	for inacti	tor human CC	CCR5 CDNA S	chemokine r	chemokine	low adenos1	ŭ	ne r	n chemokin	Human chemokine (C	
AAS121	AAS1213	AAT9697	ABI9797	AAV8413	AAT9011	AAD1319	AAD1329	ARK5187	PAVOZGO	1010101	AD19/3	ANVAA	C037764	ABA0231	ABA0231	1097744	ANVAA	ANY 0412	21 40 AAA	AAHZOSO	AAT 4404	AAZ9148	AAD1318	AAD1328	AAF2639	ABK5185		AAT9011	AAF8709	AAT9954	AAT8516	AAF2127	AAA3514	AAD0857	AAZ247	ABA9731	
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ALIGNMENTS

AAQ96297 standard; cDNA; 2232 BP.

RESULT 1 AAQ96297

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Monocyte chemoattractant protein-1 receptor; MCR-1R; chemokine; ss.
                         Human monocyte chemoattractant protein-1 receptor MCP-1RA.
                                                                        Location/Qualifiers 40..1161
                                                                                                                                    95WO-US00476
                                                                                                                                                   94US-0182962
              29-DEC-1995 (first entry)
                                                                                         /*tag= a
                                                                                                                                                                 (REGC ) UNIV CALIFORNIA.
                                                                                                                                                                                 Charo I, Coughlin S;
                                                                                                                                                                                               WPI; 1995-263866/34.
P-PSDB; AAR79165.
                                                                                                                                                    13-JAN-1994;
                                                           Homo sapiens
                                                                                                                                    11-JAN-1995;
                                                                                                        W09519436-A
                                                                                                                       20-JUL-1995.
AAQ96297;
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 used partic. DNA encoding monocyte chemo-attractant protein-1 receptor - used partifor identifying antagonists and for treating diseases characterised by monocytic infiltrates

Disclosure; Fig 1; 84pp; English.

To identify and clone new members of the chemokine receptor gene

Sequence 2232 BP; 602 A; 464 C; 508 G; 658 T; 0 other;

CGGTTTATCAGAAATACCAACGAGAGCGGTGAAGAAGTCACCACCTTTTTGATTATGAT 120 180 181 CTCTACTCGCTGGTGTTCATCTTTGGGGCAACATGCTGGTCGTCGTCTTA 240 241 ATAAACTGCAAAAAGCTGAAGTGCTTGACTGTACATTTACCTGCTCAACCTGGCCATCTCT 300 241 ATAAACTGGAAAAAGGTGAAGTGCTTGACTGACATTTACCTGGTCAACCTGGCCATCTCT 300 Gaps 1 GGAITGAACAAGGACGCATTTCCCCAGTACATCCACAACATGCTGTCCACATCTCGTTCT 60 1 GGATTGAACAAGGACGCATTTCCCCAGTACATCCACAACATGCTGTCCACATCTCGTTCT 60 TTTGGGAATGCAATGTGCAAATTATTCACAGGGCTGTATCACATCGGTTATTTGGCGGA 420 421 ATCTTCTTCATCATCCTCCTGACAATCGATAGATACCTGGCTATTGTCCATGCTGTTT 480 480 121 TACGGTGCTCCCTGTCATAAATTTGACGTGAAGCAAATTGGGGGCCCAACTCCTGCCTCCG DB 16; Length 2232; ; 0 Indels 0; ; Pred. No. 0; 0; Mismatches Score 2232; 100.0%; 100.0%; Matches 2232; Conservative Local Similarity Query Match 361 à õ a δ q g ð ò g ò qq ò g à ద ð g õ

GITGGGGAGAAGTTCAGAAGCCTTTTTCACATAGCTCTTGGCTGTAGGATTGCCCCACTC 1020 1021 CAAAAACCAGTGTGTGGAGGTCCAGGAGTGAGCAGGAAAGAATGTGAAAGTGTGACTACA 1080 1081 CAAGGACTCCTCGATGGTCGTGGAAAAGGAAAGTCAATTGGCAGAGCCCCTGAAGCCAGT 1140 601 TATGTCTGTGGCCCTTATTTCCACGAGGATGGAATAATTTCCACACAATAATGAGGAAC 660 840 900 900 1141 CTTCAGGACAAAGAAGGAGCCTAGAGACAGAAATGACAGATCTCTGCTTTGGAAATCACA 1200 661 ATTTTGGGGCTGGTCCTGCCTGCTCATCGTGGTCATCTGCTACTCGGAATCCTGAAA 720 840 901 CAGGTGACAGAGACTCTTGGGATGACTCACTGCTGCATCAATCCCATCATCTATGCCTTC 960 CGTCTGGCTTCACAGATGTGTGATTCACAGTGTGAATCTTGGTGTCTACGTTACCAGGCA 1260 1261 GGAAGGCTGAGAGAGAGAGACTCCAGCTGGGTTGGAAAACAGTATTTTCCAAACTACCT 1320 1321 TCCAGTTCCTCATTTTGAATACAGGCATAGAGTTCAGACTTTTTTAAATAGTAAAAT 1380 1441 CATGICAAACGIGAAAAIGCIGIAITAGICACAGAGAIAAITCIAGCITIGAGCITAAGA 1500 ATTITGAGCAGGTGGTATGTTTGGGAGACTGCTGAGTCAACCCAATAGTTGTTGATTGGC 1560 AGGAGTIGGAAGTGTGTGTGTGGGCACATTAGCCTATGTGCATGCAGCATCTAAGTA 1620 1621 ATGATGTCGTTTGAATCACAGTATACGCTCCATCGCTGTCATCTCAGCTGGATCTCCATT 1680 721 ACCCTGCTTCGGTGTCGAAACGAGAAGAAGAGGCATAGGGCAGTGAGAGTCATCTTCACC 841 TTCCAGGAATTCTTCGGCCTGAGTAACTGTGAAAGCACCAGTCAACTGGACCAAGCCACG 781 ATCATGATTGTTTACTTTCTGTTCTGGACTCCCTATAACATTGTCATTCTCCTGAACACC 961 1201 1381 1501 1561 1321 1501 g qq Qγ à qq ò g g ò ò q ŏ g ŏ Db ŏ ದ್ದ δ q ò qq Óγ Ω δλ q Вb ŏ δλ g ò g ŏ g ò

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Low adenosine antisense oligonucleotide; phosphorothioate; allergy; human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antinflammatory; mununcouppressive; antiasthmatic; analgesic; hypotensive; cytostatic; respiratory obstruction; pulmonary obstruction; impeded respiration; surfactant hypoproduction; pulmonary vasconstriction; asthma. RDS; surfactant hypoproduction; pulmonary vasconstriction; asthma. RDS; pulmonary hypertension; emphysema; pain: cystic fibrosis; allergic rhinitis; chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
                                                                                                                                                                                                                                             2040
                                                                                                                      CTAATTTGCCAGTGGGAACTCCTAAATCAAATTGGCTTCTAATCAAAGCTTTTAAACCCT 1860
                                                                                          1741 GITIAAICACAITICGAGIGITICAGIGCITICGCAGAIGICCTIGAIGCICAIATIGIICC 1800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human low adenosine antisense oligonucleotide related sequence #2672.
                                                                                                                                                                                                       AAACACTGGGCTTCTAGAACCAGGCAACTTGGGAACTAGACTCCCAAGCTGGACTATGGC
                                                                                                                                                                                                                 1741 GTTTAATCACATTCGAGIGTTTCAGIGCTTCGCAGAIGTCCTTGAIGCTCAIATTGTTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                               AAF21105 standard; DNA; 143068 BP.
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The present invention describes low adenosine (A) content antisense coligonucleotides and compositions (I) comprising them. In the antisense cligonucleotides the A is replaced by a 'Universal' or alternative base. Coligonucleotides the A is replaced by a 'Universal' or alternative base. Coligonucleotides the A is replaced by a 'Universal' or alternative base. CC in can have respiratory, antisthmatic, hypotensive and cytostatic activities. Immunosuppressive, antisthmatic, hypotensive and cytostatic activities. The antisense oligonucleotides and (I) can be used to down regulate the cytosting peptide factors and transmitters, transcription factors, activating peptide factors and transmitters, transcription factors, chemokines, endogenously produced specific and non-specific enzymes, chemokines, endogenously produced specific and non-specific enzymes, chemokines receptors, adenosine receptors, cytokines and chinding proteins, adhesion molecules and their receptors, cytokine and cherophoral nervous and non-nervous system peptide receptors, cNS and peripheral nervous and non-nervous system ceeptors, defensine, growth factors, vasoactive peptides and transmitters, defensine, growth factors, vasoactive peptides and creceptors, binding proteins and mallignancy associated proteins. The and/or bronchoconstriction and/or lung inflammation, allergy(ies) and/or bronchoconstriction and/or lung inflammation, allergy(ies) and/or surfactant hypoproduction which are associated with a disease or including respiratory obstruction (especially pulmonary distress syndrome condition selected from pulmonary vasoconstriction, inflammation, allergy, pain, cystic fibrosis (CF) allergy crhinitis (RB), pain, cystic fibrosis (CF) allergy crhinitis (CPD), hypertension, emphysema, chronic obstructive pulmonary transplantation rejection, pulmonary infections, bronchitis, but however, increased in the exemplification of the process of tragments and antisense oligonucleotides used in the exemplification of the process.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1339 AATACAGGCATAGAGTTCAGACTTTTTTAAATAGTAAAAATAAAAATTAAAGCTGAAAAC 1398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              979 AGCCTTTTCACATAGCTCTTGGCTGTAGGATTGCCCCACTCCAAAACCAGTGTGTGGA 1038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1039 GGTCCAGGAGTGAGACCAGGAAAGAATGTGAAAGTGACTACACAAGGACTCCTCGATGGT 1098
                                                                                                            Low adenosine (A) content antisense oligonucleotides which do not trigger adenosine receptors during metabolism, useful e.g. for treating cancers and respiratory obstructions -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 143068 BP; 41194 A; 30122 C; 32403 G; 39349 T; 0 other;
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                                                                                                                                                                                                           Disclosure; Page 924-957; 1592pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity 99.8
Matches 1252; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                   WPI; 2000-679539/66.
(NYCE/) NYCE J W.
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1399 TCCAACTTGTAAATGTGGTAAAGAGTTAGTTTGAGTTGCTATCATGTCAAACGTGAAAAT 1458
                                                                         1459 GCTGTATTAGTCACAGAGATAATTCTAGCTTTGAGCTTAAGAATTTTGAGCAGGTGGTAT 1518
                                                                                                                                                                                                                                                        1519 GTTTGGGAGACTGCTGAGTCAACCCAATAGTTGTTGATTGGCAGGAGTTGGAAGTGTGTG 1578
                                                                                                                                                           1579 ATCTGTGGGCACATTAGCCTATGTGCATGCAGCATCTAAGTAATGATGTCGTTTGAATCA 1638
                                                                                                                                                                                                                                                                                                  49093 CTCCTAAATCAAATTGGCTTCTAATCAAAGCTTTTAAACCCTAFTGGTAAAGAATGGAAG 49152
                                                                                                                                                                                                                                                                                                                                                                                  1699 AAAGCCTTTTGTGTTTTGTATCATTATGAAGTCATGCGTTTAATCACATTCGAGT 1758
                                                                                                                                                                                                                                                                                      GITICAGIGCIICGCAGAIGICCIIGAIGCICAIAIIGIICCCIAAIIIGCCAGIGGGAA 1818
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2119 GTATGATCCTAATGAATGCATAAAATGTTAAGTTGATGGTGATGAAATGTAAATACTGTT 2178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human low adenosine antisense oligonucleotide related sequence #2839.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Low adenosine antisense oligonucleotide; phosphorothioate; allergy; human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2179 ITTAACAACTATGATTTGGAAAATAAATGAATGCTATAACTATGTTGATAAAAG 2232
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The present invention describes low adenosine (A) content antisense oligonuclectides the A is replaced by a 'Universal or alternative base coligonuclectides the A is replaced by a 'Universal' or alternative base (I) can have respiratory, bronchodilator, antiinflammatory, analgesic, manuscuppressive, antiathmatic, hypotesive and cytostatic activities. CC The antisense oligonuclectides and (I) can be used to down-regulate the lung/respiratory disorders and mallonancies, such as stimulating and immunoglobulins and antibodies, antibody receptors, cytokines and immunoglobulins and antibodies, antibody receptors, cytokines and immunoglobulins and antibodies, antibody receptors, cytokines and control of proper seceptors, cytokines and control of proper seceptors, cannow and con-reports, central receptors, CS and peripheral nervous and non-nervous system (CNS) and peripheral nervous and non-nervous system ceceptors, CS and peripheral nervous and non-nervous system control of peripheral nervous and non-nervous system control of peripheral nervous and non-nervous system peptides and canniforms oligonucleotides and analynamic of antisense oligonucleotides and analynamic of antisense oligonucleotides and be used in this way to treat disorders and/or surfactory obstruction (especially pulmonary obstruction and/or lung inflammation, allergies, asthma, impeded respiratory distress syndrome condition selected from pulmonary vasocoated with a disease or allergies, asthma, impeded respiratory distress syndrome condition selected from pulmonary vasocoative pulmonary disease (CPDD), pulmonary transmiantarion, emphysema, obtronic obstructive pulmonary disease (CPDD), nulmonary transmiantarion entertion milmonary inferrines.
                     respiratory obstruction; pulmonary obstruction; impeded respiration; surfactant hypoproduction; pulmonary vasoconstruction; asthma; RDS; respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis; pulmonary hypertension; emphysema; pulmonary transplantation rejection; chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Low adenosine (A) content antisense oligonucleotides which do not trigger adenosine receptors during metabolism, useful e.g. for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           pulmonary transplantation rejection, pulmonary infections, bronchitis, and/or cancer. AAF18434 to AAF21543 represent human polynucleotide fragments and antisense oligonucleotides used in the exemplification of
immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       979 AGCCTTTTTCACATAGCTCTTGGCTGTAGGATTGCCCCACTCCAAAAACCAGTGTGTGGA 1038
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; Page 1186-1219; 1592pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cancers and respiratory obstructions -
                                                                                                                                                                                                                                                                                                                       24-MAR-2000; 2000WO-US08020.
                                                                                                                                                                                                                                                                                                                                                                    99US-0127958.
                                                                                                                                                                                                                                                                                                                                                                                                             (UYEC-) UNIV EAST CAROLINA.
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                                                                                                                                                                                                                                                                                                                                                                06-APR-1999;
                                                                                                                                                                                       Homo sapiens.
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49393 GTATGATCATAATGAATGCATAAAATGTTAAGTTGATGATGATGAAATGTAAATACTGTT 49452
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                                                                                                                                                                                                                                                                                                                                                                                                                               GGCTAAAGAAGGTTTCAGAAAGAAGTGGGGACAGAGCAGAACTTTCACCTTCATATATT 2118
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48313 GGTCCAGGAGTGAGACCAGGAAAGAATGTGAAAGTGACTACACAAGGACTCCTCGATGGT 48372
                    GITIGGGAGACTGCTGAGTCAACCCAATAGTTGTTGATTGGCAGGAGTTGGAAGTGTGTG 1578
                                                                                                                                                                                                                                                                                                                                                                                                                  1639 CAGTATACGCTCCATCGCTGTCATCTCAGCTGGATCTCCCATTCTCTCAGGCTTGCTGCCA 1698
                                                                                                                                                                                              1279 AGACICCAGCIGGGIIGGAAAACAGIAITITCCAAACIACCIICCAGTICCICAITIIG 1338
                                                               1159 GCCTAGAGACAGAAATGACAGATCTCTGCTTTGGAAATCACACGTCTGGCTTCACAGATG 1218
                                                                                                           49333 GGCTAAAGAAGGTTTCAGAAAGAAGTGGGGACAGAGCAGAACTTTCACCTTCATATTTT
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The present invention describes a new composition comprising an antisense oligonucleotide (ON) with low adenosine (up to 15%), which cartisense oligonucleotide (ON) with low adenosine (up to 15%), which cargets nucleic acids involved in bronchoconstriction, allergies, and/or confident and analgesic activities. The compositions are antiasthmatic, cytostatic and analgesic activities. The compositions are useful for the treatment of diseases associated with inflammation, ceffects afflict the lungs of a subject. They can be used for treating effects afflict the lungs of a subject. They can be used for treating of estima, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, emphysema, chronic obstructive thronary disease (COPD), and cancers such as leukaemias, lymphomas, correlationas, and cancers which may metastasise to the lungs, including cractinomas, and cancers which may metastasise to the lungs, including cractinomas, and cancers which may metastasis to the lungs, including cractinomas, and cancers which may metastasis to the lungs, including cractinomas, and cancers which may metastasis to the lungs, including cractinomas, and cancers which and activates adenosine receptors causing the absorbed sequences given in the sequences is provided by the activates and prostriction and inflammation. AAA32313 to AAA33312 represent conclective sequences given in the sequences. SEQ ID NO:1 to 185, but the sequences invention. N.B. Sequences given in the disclosure of the present convention. N.B. Sequences given in the disclosure of the present convention do not match up with their corresponding SEQ ID NO: sequences given in the sequence listing.
                                                                                                                                                                                                                                                                                                                                 Human; adenosine receptor; low adenosine antisense oligonucleotide; phosphorothioate; impaired respiration; inflammation; allergy; allergyc disease; bronchoconstriction; inhibitor; antifilammatory; antiallergic; antiasthmatic; cytostatic; analgesic; impaired alrway; lung disease; ischaemic condition; pulmonary vasoconstriction; asthma: respiratory distress syndrome; pain; cystic fibrosis; emphysema; pulmonary hypertension; chronic obstructive pulmonary disease; CoPD; cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstriction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or
Human adenosine receptor related polynucleotide SEQ ID NO:2672.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Page 851-882; 1343pp; English.
                                                                                                                                                               AAA34983 standard; DNA; 143068 BP
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                                                                                                                                                                                                                      AAA34983;
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                                                                                                       1039 GGTCCAGGAGTGAGACCAGGAAAGAATGTGAAAGTGACTACACAAGGACTCCTCGATGGT 1098
                                                                                                                                              CGTGGAAAAGGAAAGTCAATTGGCAGAGCCCCTGAAGCCAGTCTTCAGGACAAAGGA 1158
                                                                                                                                                                                  1159 GCCTAGAGACAGAAATGACAGATCTCTGCTTTGGAAATCACACGTCTGGCTTCACAGATG 1218
                                                                                                                                                                                                                                                                                                                                                    1279 AGACTCCAGCTGGGTTGGAAAACAGTATTTTCCAAACTACCTTCCAGTTCCTCATTTTG 1338
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         Sequence 143068 BP; 41194 A; 30122 C; 32402 G; 39350 T; 0 other;
                                  DB 21; Length 143068;
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49213 TICTIATGTTGCCCAGTGTTTCTGATCTGATGCAAGCAAGAAACACTGGGCTTCTAGA 49272
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                                                  1999 ACCAGGCAACTIGGGAACTAGACTCCCAAGCTGGACTATGGCTCTACTTTCAGGCCACAT 2058
                                                                                                  2059 GGCTAAAGAAGGTTTCAGAAAGAAGTGGGGACAGAGCAGAACTTTCACCTTCATATATT 2118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; adenosine receptor; low adenosine antisense oligonucleotide; phosphorothioate; impaired respiration; inflammation; allergy; allergic disease; bronchoconstriction; inhibitor; antiinflammatory; antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway; lung disease; ischaemic condition; pulmonary vasoconstriction; asthma; respiratory distress syndrome; pain; cystic fibrosis; emphysema; pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
                                                                                                                                                                     2119 GTATGATCCTAATGAATGCATAAAATGTTAAGTTGATGGTGATGAAATGTAAATACTGTT
                                                                                                                                                                                                                                    Human adenosine receptor related polynucleotide 2nd SEQ ID NO:24.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.
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                                                                                                                                                                                                                                                                                                                                                         AAA35150 standard; DNA; 143068 BP.
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carcinomas, and cancers which may metastasise to the lungs, including breast and prostate cancer. The reduction of the adenosine content of the ONs reduces side effects. The A-containing ONs break down with the release of deoxyadenosine which activates adenosine receptors causing bronchoconstriction and inflammation. AAA32313 to AAA33312 represent the nucleotide sequences given in the sequence listing from the present thrownion, which correspond to SEQ ID NO:1 to 2815, and then the last 185 sequences are also called SEQ ID NO:1 to 185, but the sequences differ from the previously named sequences. SEQ ID NO:11 to 1680 (AAA3332) are specifically claimed ONs from the present invention on the nation which their corresponding SEQ ID NO: sequences given in the sequence listing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                48853 ATCTGTGGGCACATTAGCCTATGTGCATGCAGCATCTAAGTAATGATGTGGTTTGAATCA 48912
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                                                                                                                                                                                                                                                                        Sequence 143068 BP; 41194 A; 30126 C; 32402 G; 39346 T; 0 other;
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Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
cytostatic; gene therapy; antineoplastic; Wilm's tumour; adenocarcinoma;
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                                                                                   1819 CICCIAAATCAAATIGGCTICIAATCAAAGCITITAAACCCIATIGGTAAAGAATGGAAG
                                                                        1879 GIGGAGAAGCICCCIGAAGIAAGCAAAGACITICCICITAGICGAGCCAAGITAAGAAIG
                                                                                                                                                          ACCAGGCAACTTGGGAACTAGACTCCCAAGCTGGACTATGGCTCTACTTTCAGGCCACAT
                                                                                                                                                                                                 GGCTAAAGAAGGTTTCAGAAAGAAGTGGGGGACAGAGCAGAACTTTCACCTTCATATATT
                                                                                                                                                                                                                                           2119 GTATGATCCTAATGAATGCATAAAATGTTAAGTTGATGGTGATGAAATGTAAATACTGTT
                                                                                                                                                                                                                                                                                               2179 ITTAACAACTATGATTTGGAAAATAAATCAATGCTATAACTATGTTGATAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                           Ovary cancer related gene sequence SEQ ID NO:6461.
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2000US-234052P.
2000US-234509P.
2000US-234567P.
2000US-234923P.
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2000US-235134P.
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2000US-233133P.
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2000US-234009P.
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22-SEP-2000;
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18-SEP-2000;
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27-SEP-2000;
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The present invention describes a method (MI) for screening for an anti-neoplastic agent. The method involves exposing cells to a chemical agent to be tested for anti-neoplastic activity determining a change in expression of at least one gene (I) of a signature gene set, where (I) comprises a sequence (S) selected from 8447 sequences (given in AbL61664 comprises a sequence (S) selected from 8447 sequences (given in AbL61664 comprises a sequence (S) at least 95% identical to (S), where a change in expression is indicative of anti-neoplastic activity; (I) has ofvostatic activity and can be used in gene therapy. MI can be used for screening can anti-neoplastic agent, and can be used for producing a product which is the data collected with respect to the anti-neoplastic agent as a structure and/or properties of the agent. MI can be used in the creatment of cancer such as colon, breast, stomach, lung, thyroid, esophageal, ovarian, kidney, prostate or pancreatic cancer.

C denocarcinoma, carcinoma, clear cell cancer, infiltrating ductal cancer.

C infiltrating lobular cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Screening for anti-neoplastic agent involves exposing cells to a chemical agent to be tested for anti-neoplastic activity, and determining a change in expression of a gene of a signature gene set
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2000US-237606P.
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2000US-237173P.
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2000US-237295P
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01-NOV-2000; 2000US-245084P.
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29 - SEP - 2000;
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Soppet DR,
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                                                                                                               979 AGCCTTTTTCACATAGCTCTTGGCTGTAGGATTGCCCCACTCCAAAAACCAGTGTGTGGA 1038
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Sequence 143068 BP; 41194 A; 30122 C; 32403 G; 39349 T; 0 other;
                                         Score 1152; DB 24; Length 143068;
Pred. No. 0;
0; Mismatches 2; Indels 0; 0
                                           51.6%;
99.8%;
                                                          Best Local Similarity 99.8
Matches 1252; Conservative
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                                                 1339 AATACAGGCATAGAGTTCAGACTTTTTTAAATAGTAAAAATAAAATTAAAGCTGAAAAC
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The present invention describes a new composition comprising an antisense oligonuclectide (ON) with low adenosine (up to 15%), which targets nucleic acids involved in bronchoconstriction, allergies, and/or inflammation. The ON can have antiniflammatory, antiallergic, antialsetyic, cartiantic, cytostatic and analgesic activities. The compositions are useful for the treatment of diseases associated with inflammation, impediated airways, including lung disease and diseases whose secondary captured airways, including lung disease and diseases whose secondary captume, impediate spiration, respiratory distress syndrome, pain. cystic fibrosis, pulmonary bypertension, respiratory distress syndrome, pain. cystic fibrosis, pulmonary hypertension, memphysema, chronic obstructive fibrosis, and cancers which may metastasise to the lungs, including breast and prostate cancer. The reduction of the adenosine content of the ONs reduces side effects. The A-containing ONs break down with the release of deoxyadenosine which activates adenosine receptors causing connections which correspond to SEO ID No:1 to 28%; and then the last invention, which correspond to SEO ID No:1 to 18%, but the sequences are also called Sequences. SEO ID No:11 to 1680.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                differ from the previously named sequences. SEQ ID NO:11 to 1680 (AAA32323 to AAA3392) are specifically claimed ONs from the present invention. NB. Sequences given in the disclosure of the present invention do not match up with their corresponding SEQ ID NO: sequences given in the sequence listing.
                                                                                                                                                                                               Human; adenosine receptor; low adenosine antisense oligonucleotide; phosphorothioate; impaired respiration; inflammation; allergy; allergy; disease; bronchoconstriction; inhibitor; antiniflammatory; antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway; lung disease; ischaemic condition; pulmonary vasoconstriction; asthma: respiratory distress syndrome; pain; cystic fibrosis; emphysema; pulmonary hypertension; chronic obstructive pulmonary disease; COPD; cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstriction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 149412 BP; 43049 A; 31388 C; 33852 G; 41123 T; 0 other;
                                                                                                                                                             Human adenosine receptor related polynucleotide 2nd SEQ ID NO:25.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 1138-1171; 1343pp; English.
                                  AAA35151 standard; DNA; 149412 BP
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RESULT 7
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51.6%; Score 1152; DB 21; Length 149412; 99.8%; Pred. No. 0;

Best Local Similarity

Query Match

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                                                                   55017 TGCAACTIGTAAATGTGGTAAAGAGTTAGTTTGAGTTACTATCATGTCAAACGTGAAAAT 55076
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                             AATACAGGCATAGAGTTCAGACTTTTTTAAATAGTAAAAATAAAATTAAAGCTGAAAAC 1398
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                                                        GGTCCAGGAGTGAGACCAGGAAAGAATGTGAAAGTGACTACACAAGGACTCCTCGATGGT 1098
                                                                                                1099 CGTGGAAAAGGAAAGTCAATTGGCAGAGCCCCTGAAGCCAGTCTTCAGGACAAAAGAA 1158
                 979 AGCCTITTTCACATAGCTCTTGGCTGTAGGATTGCCCCACTCCAAAAACCAGTGTGTGGA 1038
0; Gaps
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AAF21273 standard; DNA; 152740 BP. 14-MAR-2001 (first entry) AAF21273; RESULT 8 AAF21273

Low adenosine antisense oligonuclectide; phosphorothioate; allergy; human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antinflammatory; immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic; respiratory obstruction; pulmonary obstruction; impeded respiration; surfactant hypoproduction; pulmonary vasoconstriction; asthma; respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis; pulmonary hyportension; emphysema; pulmonary transplantation rejection; chronic obstructive pulmonary disease; pulmonary infection; bronchitis; Human low adenosine antisense oligonucleotide related sequence #2840.

WO200062736-A2. Homo sapiens. 26-OCT-2000

24-MAR-2000; 2000WO-US08020. 99US-0127958. (UYEC-) UNIV EAST CAROLINA. 06-APR-1999;

(NYCE/) NYCE J W.

Low adenosine (A) content antisense oligonucleotides which do not trigger adenosine receptors during metabolism, useful e.g. for treating cancers and respiratory obstructions -WPI; 2000-679539/66. Nyce JW;

Disclosure; Page 1219-1254; 1592pp; English.

The present invention describes low adenosine (A) content antisense oligonucleotides and compositions (I) comprising them. In the antisense oligonucleotides the A is replaced by a 'Universal' or alternative base. (I) can have respiratory, bronchoilator, antinfinamatory, analgesic, immunosuppressive, antiasthmatic, hypotensive and cytostatic activities. The antisense oligonucleotides and (I) can be used to down-regulate the expression and or activity of target polypeptides associated with a cutivating peptide factors and malignancies, such as stimulating and cutivating peptide factors and transmitters, transcription factors, immunoglobulins and antibodies, antibody receptors, cytokines and chesion molecules and their receptors, cytokine and chemokines, addesion molecules and their receptors, cytokine and chemokine receptors, adenosine receptors, bradykinin receptors, central crocycus system (CNS) and peripheral nervous and non-nervous system peptide

1699 AAAGCCTTTTGTTTTTTTTTTTTTATGAAGTCATGCGTTTAATCACATTCGAGT

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transmitters, defensins, growth factors, vasoactive peptides and antisense oligonucleotides may be used in this way to treat disorders antisense oligonucleotides may be used in this way to treat disorders including respiratory obstruction (especially pulmonary obstruction and/or bronchoconstriction) and/or lung inflammation, allergy(les) and/or bronchoconstriction which are associated with a disease or allergies, asthma, impeded respiration, respiratory distress syndrome (FNS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary pulmonary transplantation refection obstructive pulmonary disease (CoPD), pulmonary transplantation rejection, pulmonary infections, bronchitis, fragments and antisense oligonucleotides used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                         54597 AGCTITITCACATAGCICITGGCIGIAGGAITGCCCCACICCAAAAACCAGIGIGIGA 54656
                                                                                                                                                                                                                                                                                                                                                                                                                                                    54716
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                                                                                                                                                                                                                                       55437 CICCTAAATCAAATTGGCTTCTAATCAAAGCTTTTAAACCCTATTGGTAAAGAATGGAAG 55496
                                                                                                                                                                               1999 ACCAGGCAACTTGGGAACTAGACTCCCAAGCTGGACTATGGCTCTACTTTCAGGCCACAT 2058
                                                                                                                                                                                                                                                                       2119 GTATGATCCTAATGAATGCATAAAATGTTAAGTTGATGGTGAAATGTAAATACTGTT 2178
                                                                                                                                   1939 TICTIANGTICCCCAGIGITICTGAICTGAIGCAAGCAAGAAACACTGGGCTICTAGA 1998
                                            1819 CICCTAAAICAAAITGGCIICTAAICAAAGCITITAAACCCIATIGGIAAAGAAIGGAAG 1878
                                                                                        GTGGAGAAGCTCCCTGAAGTAAGCAAAGACTTTCCTCTTAGTCGAGCCAAGTTAAGAATG 1938
1759 GITTCAGTGCTTCGCAGATGTCCTTGATGCTCATATTGTTCCCTAATTTGCCAGTGGGAA 1818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Monocyte chemoattractant protein-1 receptor; MCR-1R; chemokine; ss.
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                                                                                                                                                 GGCTAAAGAAGGTTTCAGAAAGAAGTGGGGACAGAGCAGAACTTTCACCTTCATATATT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human monocyte chemoattractant protein-1 receptor MCP-1RB.
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81..1160
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Treepetbors and the HumSTRS orphan receptor (GenBank Accession #M9293.

The degenerate oligo incorporating EcoRI and XhoI sites at their 5' cans are Q96299 and Q96300. Amplification of CDNA derived from MM6 colls with the prof products. One cDNA appeared to encode a novel protein. To obtain a full-length version of this clone, a MM6 cDNA library was constructed in pR780G and probed with the PCP product. A 2.1 kb cDNA clone was obtd. Analysis of additional clones in the MM6 cDNA library revealed a second additional clones in the MM6 cDNA library revealed a second content to sequence that was identical to the 2.1 kb cDNA sequence first obtd. Even the 5' UTR khrough the putative seventh transmembrane domain contained a different cyclolasmic tail. The second sequence the MCP-IRP protein. The two sequences are denoted MCP-IRA can depend more and MCP-IRB see Q96299/R79165 & Q96298/R79166). Active mature contained has a predicted mol. Wt. of about 42,000 daltons. MCP-IRB a mol. Wt. of about 42,000 daltons. MCP-IRB
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The invention relates to diagnosing atherosclerosis (or susceptibility to) in a subject by determining expression or activity of the human CCR2-641 polypeptide (a polymorphic variant form of the human CR2 feceptor) or the CCR2-64V polypeptide (human CCR2 receptor), by screening encoding the CCR2 receptor. This results in production of CCR2-64I, whereby polymorphic variants are associated with a lower incidence of also be analysed. The presence or amount of CCR2-64IV in a sample can predicting the response of a patient to drug treatment, for predicting the disease outcome in a patient and also for the production of a the disease outcome in a patient and also for the production of a treatment for hypercholesterolesmia. The sequence represents DNA encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; CCR2 receptor; CCR2-641; CCR2-64V; gene therapy; atherosclerosis;
single nucleotide polymorphism; hypercholesterolaemia; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Diagnosing atherosclerosis or susceptibility to atherosclerosis in a subject, by determining a single nucleotide polymorphism in specific codon of a polynucleotide encoding human CCR2 receptor in genome of the
                                                                                                                                                                                        721 ACCCTECTTCGGTGTGGAAAGAAGAAGAGGGGATAGGGCAGTGAGAGTCATCTTCACC 780
                                                        781 ATCATGATTGTTTACTTTCTGTTCTGGACTCCCTATAACATTGTCATTCTCTGAACACC 840
                                                                                                                                 CAGGTGACAGAGACTCTTGGGATGACTCACTGCTGCATCAATCCCATCATCTATGCCTTC 960
                841 TTCCAGGAATTCTTCGGCCTGAGTAACTGTGAAAGCACCAGTCAACTGGACCAAGCCACG
                                                                                                                                                                                                                                                                                                                                                                                                                    Human wild-type CCR2-64V polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 3; Page 20-21; 28pp; English.
                                                                                                                                                                                                                                                                                                                               AAS12140 standard; DNA; 1083 BP.
                                                                                                                                                                                                                                                 1002 GTTGGGGAGAAGTTCAGAAG 1021
                                                                                                                                                                                                                                961 GTTGGGGAGAAGTTCAGAAG 980
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100 ACCACCITITIGATIATGATIACGGTGCTCCCTGTCATAAATTTGACGTGAAGCAAATT 159
                                                                                                       160 GGGGCCCAACTCCTGCCTCCGCTCTTCGTTCTTTTGTTTTTTTGTGGCAAC 219
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                       Score 941; DB 22; Length 1083; Pred. No. 0;
Sequence 1083 BP; 255 A; 260 C; 247 G; 321 T; 0 other;
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                42.2%; Score 100.0%; Pred. No. 0;
                                      Matches 941; Conservative
                              Best Local Similarity
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RESULT 11 AAS12139

the wild-type receptor polypeptide CCR2-64V.

us-09-625-573-1.oli.rng

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/product= Monocyte_chemoattractant_protein_l_receptor
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                                                                                                                                                                                                           280 CTGCTCAACCTGGCCATCTCTGTTTTTCTTATACTCTCCCATTGTGGGCTCAC 339
                                                                                    241 CIGCICAACCIGGCCAICICIGAICIGCITITICITATIACICICCCAIIGIGGGCICAC 300
                                                                                                                      340 TCTGCTGCAAATGAGTGGGTCTTTGGGAATGCAATGTGCAAATTATTCACAGGGCTGTAT 399
                                                                                                                                          Human; MCP-1; monocyte chemoattractant protein; receptor; tumour; inflammatory disease; viral; allergy; diabetes; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTGTCATTCTCCTGAACACCTTCCAGGAATTCTTCGGCCTGAGTAACTGTGAAAGCACC
                                                                                                                                                                                            Human monocyte chemoattractant protein 1 receptor encoding cDNA.
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1..1083
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                                                                                                                                                       Human; CCR2 receptor; CCR2-641; CCR2-64V; gene therapy; atherosclerosis; single nucleotide polymorphism; hypercholesterolaemia; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Diagnosing atherosclerosis or susceptibility to atherosclerosis in a subject, by determining a single nucleotide polymorphism in specific codon of a polynucleotide encoding human CCR2 receptor in genome of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     160 GGGGCCCAACTCCTGCCTCCGCTCTACTCGCTGGTGTTCATCTTTGTGGCAAC 219
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          40 ATGCTGTCCACATCTCGTTCTCGGTTTATCAGAAATACCAACGAGAGCGGTGAAGAAGTC 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Gaps
                                                                                                                                                                                                                                                                                                  /standard_name= "Single nucleotide polymorphism"
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Pred. No. 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1;
                                                                                                                           Human CCR2-64I polymorphic variant polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     the polymorphic variant polypeptide CCR2-641.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Mismatches
                                                                                                                                                                                                                                                  Location/Qualifiers
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                         AAS12139 standard; DNA; 1083 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (SMIK ) SMITHKLINE BEECHAM PLC.
                                                                                                                                                                                                                                                                    replace(190,G)
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Best Local Similarity 99.9%;
Matches 940; Conservative (
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                                                                                              04-DEC-2001 (first entry)
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                                                                                                                                                                                                                                                                        variation
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                                                                                                                                                                                                                                                                                                                                                                                                        ACCACCTTTTTGATTATGATTACGGTGCTCCCTGTCATAAATTTGACGTGAAGCAAATT 159
                                                                                                                                                                                                                                                                                                                                                                                                                     160 GGGGCCCAACTCCTGCCTCCTACTCGCTGGTGTTCATCTTTGGTTTTGTGGGCAAC 219
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                                                                                                                                          DNA encoding human monocyte chemoattractant protein 1 receptor - used to treat tumours and inflammatory, Viral, infectious, allergic, diabetic and central nervous system diseases
                                                                                                                                                                                                                                                                                                                                           0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             340 TCTGCTGCAAATGAGTGGGTCTTTGGGAATGCAATGTGCAAATTATTCACAGGGCTGTAT 399
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                                                                                                                                                                                                                                                                                                             37.6%; Score 839; DB 18; Length 1083; 99.8%; Pred. No. 0; ative 0; Mismatches 2; Indels 0
                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                 Sequence 1083 BP; 257 A; 259 C; 245 G; 322 T; 0 other;
                                                                                                                                                                                       Claim 1; Page 12; 15pp; Japanese.
                                                                                 (TAKE ) TAKEDA CHEM IND LTD.
                                     96JP-0053574
                                                             96JP-0053574
                                                                                                                                                                                                                                                                                                                       Best Local Similarity 99.8
Matches 939; Conservative
                                                                                                        1997-506557/47.
                                                                                                                   P-PSDB; AAW35833.
                                 11-MAR-1996;
                                                           11-MAR-1996;
             16-SEP-1997
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820 ATTGTCATTCTCCTGAACACCTTCCAGGAATTCTTCGGCCTGAGTAACTGTGAAAGCACC 879
                                                                                                                                                    AGTCAACTGGACCAAGCCACGCAGGTGACAGAGACTCTTGGGATGACTCACTGCTGCATC 939
                                                                                                                                                                 nse in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to G protein-coupled receptors (GPCRs) for which the endogenous ligand has been identified. Non-endogenous constitutively activated versions of known GPCRs are used in the invention for the direct identification of candidate compounds as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              receptor agonists, inverse agonists or partial agonists. Such agonists are useful as therapeutic agents for diseases or disorders associated with GPCRS. The present sequence encodes a non-endogenous
                                                               Human; G protein-coupled receptor; GPCR; non-endogenous; mutant; constitutively activated GPCR; agonist; disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Identifying agonists of G protein-coupled receptors (GPCRs) for udisease treatment, comprises contacting candidate compounds with versions of GPCRs -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         37.6%; Score 839; DB 23; Length 1083; Best Local Similarity 99.8%; Pred. No. 0; Matches 939; Conservative
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                                                                                                                                                                                                  940 AATCCCATCATCTATGCCTTCGTTGGGGAGAAGTTCAGAAG 980
                                                                                                                                                                                                                 Non-endogenous human GPCR cDNA, SEQ ID NO: 472.
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                                                                                                                                                                                                                                                                                      ABI97976 standard; cDNA; 1083
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      version of a known human GPCR.
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                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (AREN-) ARENA PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Lehmann-Bruinsma K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2001-648759/74.
P-PSDB; ABB56340.
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Indels

HIV-1; CCR5; CCR5m303; co-receptor; infection; diagnosis; AIDS; gene therapy; human; probe; ss.

Homo sapiens

Synthetic

WO9854317-A1 03-DEC-1998. 98WO-EP03437 97US-0048057

29-MAY-1998;

30-MAY-1997;

HIV-1 co-receptor CCR5 gene hybridisation probe

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880 AGICAACIGGACCAAGCCACGCAGGIGACAGACACICIIGGGAIGACICACIGCIGCAIC 939
                                                                                                                                                                                                                                                                                                                                                                                      GCAGTGAGAGTCATCTTCACCATCATGATTGTTTACTTTCTCTTCTGGACTCCCTATAAC 819
                                                                                                                                                                                                                                                                                                        640 TICCACACAATAATGAGGAACAITIIGGGGCIGGICCIGCCGCIGCICAICAIGGICAIC 699
                                                                                                                                                                                                                                                                              IGCTACTCGGGAATCCTGAAAACCCTGCTTCGGTGGAAACGAGAAGAAGAAGGAGATAGG 759
                                                                                                                                                                                           460 GCTATTGTCCATGCTGTGTTTGCTTTAAAAGCCAGGACGGTCACCTTTGGGGTGGTGACA 519
                                                                                                                                                                                                  100 ACCACCTITITIGATIAIGATIACGGIGCTCCCIGICAIAAAITIGACGIGAAGCAAATI 159
               820 ATTGTCATTCTCCTGAACACCTTCCAGGAATTCTTCGGCCTGAGTAACTGTGAAAGCACC
                                                                                                                                                                                                                                                                                                                                                            580 IGCCAGAAAGAAGAITCIGIITAAIGTCIGIGGCCCTIAITITCCACGAGGAIGGAAIAAI
                                                                                                                                                                                                                     520 AGTGTGATCACCTGGTTGGTGGCTGTTTGCTTCTGTCCCAGGAATCATCTTACTAAA
                                                                                                                                                                                                                                                     280 CIGCICAACCIGGCCAICTCIGAICTGCITITICITATTACICCCCAIIGIGGGCICAC
                                                                                                                                        TCTGCTGCAAATGAGTGGGTCTTTGGGAATGCAATGTGCAAATTATTCACAGGGCTGTAT
                                                                                           ATGCTGTCCACATCTCGTTCTCGGTTTATCAGAAATACCAACGAGAGCGGTGAAGAAGTC
                                                                                                                                                                                                                                                                                                                                                                                                         940 AATCCCATCATCTATGCCTTCGTTGGGGAGAAGTTCAGAAG 980
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used in claimed methods for detecting and identifying the presence HIV-1 CCR5 co-receptor variant nucleic acids (see AAV84125 and AAV84159) in a sample. The detection of CCR5 variants may be used tidentify individuals at lower risk of infection relative to the general population who, if infected, may exhibit slower progression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Inactive; human Cys-Cys chemokine receptor 5; CCR5; human immunodeficiency virus; type 1; type 2; HIV-1; HIV-2; predisposition; resistance; diagnosis; treatment; prevention; inflammatory disease; rheumatoid arthritis; glomerulonephritis; asshma; idiopathic pulmonary fibrosis; psoriasis; viral infection; cancer; atherosclerosis; autoimmune disorder; ss.
                                                                                                            New CCR5 variant protein of the HIV-1 co-receptor - useful in developing resistance of CCR5-expressing cells to HIV-1 infection
                                                                                                                                                                                                            is the nucleotide sequence of a claimed hybridisation probe
                                                                                                                                                                                                                                                                                                                                                                                                     2.9%; Score 65; DB 20; Length 461;
100.0%; Pred. No. 1.4e-21;
tive 0; Mismatches 0; Indels
                                     Beretta A, Braun J, Quillent C;
                                                                                                                                                                                                                                                                                                                                                                    Sequence 461 BP; 102 A; 112 C; 106 G; 141.T; 0 other;
(MOND-) FOND MONDIALE RECH & PREVENTION SIDA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAT90116 standard; cDNA; 792 BP.
                                                                                                                                                                                 Claim 8; Page 31; 55pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cDNA for inactive human CCR5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     65; Conservative
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                                             Arenzana Siesdedos F,
                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                   WPI; 1999-059835/05.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              526 ATCAC 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   216 ATCAC 220
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAT90116;
                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                             Local
                                                                                                                                                                                                                                                                                                                                             to AIDS
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15-MAR-1999 (first entry)

AAV84136;

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                                                                                                                                                                                                                                                                                                                  The present sequence encodes an inactive human CC (Cys-Cys) chemokine receptor 5 (CCR5), which is not a receptor of human immunodeficiency virus type 1 or type 2 (HIV-1 or HIV-2). CCR5 or dispense, treat and/or prevent inflammatory diseases, e.g. rheumatorid arthritis, glomerulonephritis, asthma, especially HIV-1 or HIV-2 infection, cancer, atherosclerosis and autoimmune disorders. Subjects that express the inactive receptor have a predisposition, or resistance to HIV-1 and/or HIV-2.
 /note= "carboxy-terminal coding sequence deleted"
                                                                                                                                                                                                                                        Active and inactive forms of human CC chemokine receptor CCR-5 useful to diagnose, prevent and/or treat inflammatory disorders, autoimmune disease and viral infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2.9%; Score 65; DB 18; Length 792;
100.0%; Pred. No. 1.4e-21;
tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 792 BP; 208 A; 195 C; 156 G; 233 T; 0 other;
                                                                                                                                                                       Libert F, Parmentier M, Samson M, Vassart G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Search completed: June 1, 2003, 20:41:22 Job time : 1487 secs
                                                                                                                                                                                                                                                                                            Claim 18; Fig la; 94pp; English.
                                                                               97WO-BE00023.
                                                                                                          96EP-0870102.
96EP-0870021.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity 100.0
                                                                                                                                               (EURO-) EUROSCREEN SA.
                                                                                                                                                                                                 WPI; 1997-479829/44.
                                                                                                                                                                                                             P-PSDB; AAW27406.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          526 ATCAC 530
                         WO9732019-A2
                                                                           28-FEB-1997;
                                                                                                      06-AUG-1996;
01-MAR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     690 ATCAC 694
                                                   04-SEP-1997
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